

Geospatial Platform Update

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Department of the Interior
FGDC Steering Committee
April, 2016





Release Schedule

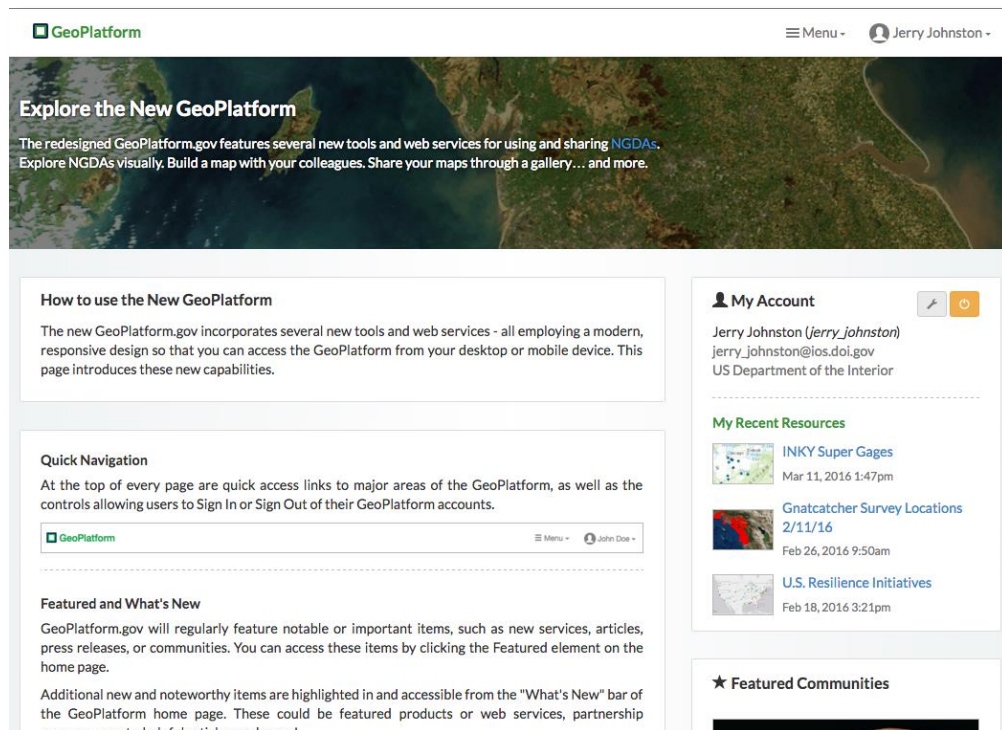
Recent and Near Term Releases

- ❖ Release 2: October 2015 (Done)
- ❖ Release 3: February 2016 (Done)
- ❖ Release 4: May 2016 (Next)
- ❖ Release 5: June 2016 (Planning)
- ❖ Release 6: September 2016 (Planning)

Current GeoPlatform

❖ What's New:

- ❖ Look and feel
- ❖ Additional map viewer functionality
- ❖ Create and import maps from Esri's ArcGIS On-Line
- ❖ Create and embed Map Galleries into external sites
- ❖ Portfolio management capabilities to measure and manage national geospatial data assets
- ❖ Enriched geospatial marketplace
- ❖ Secure scalable Amazon Web Service infrastructure





Release 2 & 3 Accomplishments

- ❖ Landing Page
- ❖ Web Map Viewer 2.0
- ❖ AGOL Map Harvester
- ❖ Map Manager, Phase I
- ❖ NGDA Survey Tool
- ❖ 3DEP Project Tracker
- ❖ Performance Dashboard, Phase I
- ❖ IDM/IDP Replacement
- ❖ Service Desk process defined and implemented
- ❖ O&M/DevOps fully implemented
- ❖ 90% in-the-cloud

GEOPLATFORM.gov
Federal Geographic Data Committee

Overview | Data | Maps | Communities/Agencies | Resources | Marketplace | Dashboards

Explore
Develop
Publish

The Geospatial Platform Releases New Data Viewer
Your taxpayer investment in environmental data just got a lot more valuable. Now instead ...

Trending Data
U.S. Hourly Precipitation Data
Hourly Precipitation Data (HPD) is digital data set DSI-3240, archived at the National Climatic Data Center (NCDC). The primary source of data for this file is approximately 5,500 US National ...
Great Chile Earthquake of May 22, 1960 - Anniversary Edition
May 22, 1960 (19:11 UTC), a Mw 9.5 earthquake d in southern Chile (39.5 S, 74.5 W). This was the earthquake ever instrumentally recorded. (It was not

Featured Maps
Sea Level Rise Planning Tool - New Jersey and New York State
NOAA, in partnership with FEMA, USACE, USGCRP, and CEQ has created a set of map services and related tools to help communities, residents, and other stakeholders consider risks...

Search

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Search Data Catalog
130,314 Datasets
Search geospatial data by terms above...
Learn More

News & Blogs - What's new and the latest information about Geoplatform

Site Statistics & Data Metrics - site usage, popular pages, organizational dataset counts and updates.

Datasets Published per Month
Data last updated on 10/13/2015 12:27 AM

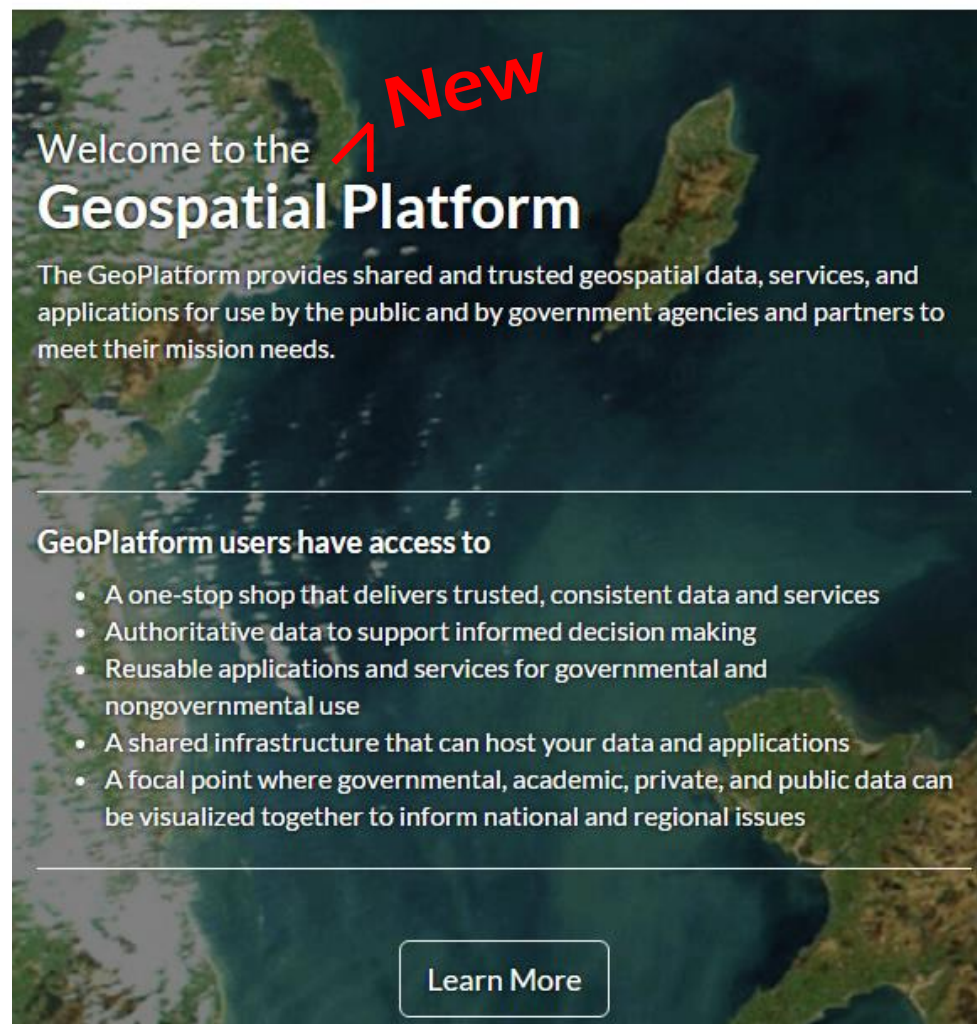
Agency Name	Number of Datasets published by month												Total in the Past 12 Months
	Feb '15	Mar '15	Apr '15	May '15	Jun '15	Jul '15	Aug '15	Sep '15	Oct '15	Nov '15	Dec '15	Jan '16	
Department of Agriculture	11	10	3	2	9	1	2	23	-	-	-	-	71
Department of Commerce	3	1	1	-	48	30	17	61325	574	-	-	-	61999
Department of Homeland Security	-	-	1	-	6952	1159	-	-	-	-	-	-	8112
Department of State	-	-	-	-	15	5	2	2	1	-	-	-	25
Department of the Interior	119	41	107	103	105	249	284	39	46	-	-	-	1093
Department of Transportation	-	-	-	-	-	57	-	-	-	-	-	-	57
Environmental Protection Agency	-	-	-	618	48	371	29	639	518	16	-	-	2239
National Aeronautics and Space Administration	2035	-	-	-	-	-	14567	-	-	-	-	-	16602
Total	2168	52	730	158	7500	16097	949	61907	637	-	-	-	90198

Release 3 Overview



Menu ▾ Sign In

- ❖ “Go Live” date Feb 2016
- ❖ Enhanced user experience and navigation for both first-time and frequent users
- ❖ New Homepage and overall responsive site design
- ❖ Interactive browse / view / mashup of all geospatial web services in Geoplatform.gov catalog with service quality indicators





GeoPlatform R3 Overview (con't.)

❖ Web Map Viewer Phase II:

- ❖ Map saving and sharing

- ❖ Map Knowledge Graph prototype

❖ Map Manager, Phase II with AGOL Harvester

❖ Performance Dashboard, Phase II:

- ❖ Service Checker

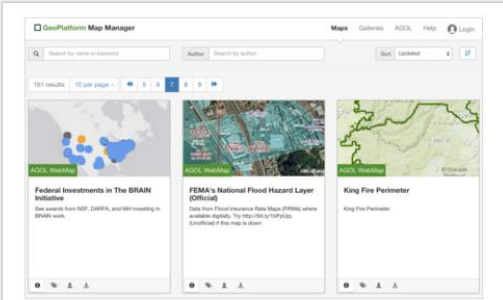
- ❖ NGDA Metadata Viewer

- ❖ Batch Selections

- ❖ Registry prototype

- ❖ Mobile Observation Services

What's New



Featured: GeoPlatform Release Preview

GeoPlatform will soon provide a new look and feel in addition to offering many new services. Check out a preview of these new features in this inside look. [Learn more](#)

Featured App: GeoPlatform Map Viewer
Browse thousands of WMS and ESRI-hosted map layers, construct maps, and more with the new and improved GeoPlatform Map Viewer! [Launch >](#)

Map Collaboration
Learn how to compose and share maps using open services with GeoPlatform. [Learn more >](#)

ArcGIS Online Integration
Quickly and easily integrate existing ArcGIS Online maps into your GeoPlatform pages using the Map

First Time Here?

Sign up to access thousands of datasets uploaded by others and contribute your own data to the world! You can also share your expertise and find experts to help with your geospatial data needs by joining one of our [Communities](#). Submit your metadata to [Data.gov](#) and we'll add it to GeoPlatform so others can use it.

Register

or

Sign In



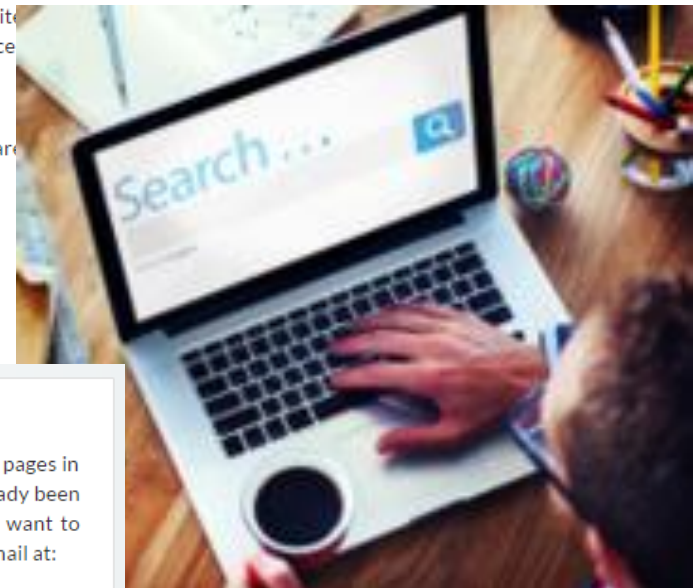
New User Benefits

- ❖ Enhanced navigation to quickly direct users to specific areas of interest
- ❖ Account registration and management for added access and functionality
- ❖ Tutorials and training opportunities
- ❖ Help tools
- ❖ Dedicated and responsive Service Desk

About GeoPlatform

GeoPlatform.gov was created to enhance geospatial resource sharing across the U.S. Government and the world, and to allow users like you to participate in an online geospatial services experience. Whether you want to discover and use up-to-date National Geospatial Data Assets (NGDAs), make a shared gallery of maps for your website, or more, GeoPlatform.gov is a place in the geospatial ecosystem.

Tip: Access any of the GeoPlatform's area



Contact Us

Please check out our [Help](#) and [FAQ](#) pages in case your question or issue has already been addressed. If you still need help or want to report an issue, please send us an email at:

servicedesk@geoplatform.gov

For questions about the federal government not related to GeoPlatform, visit USA.gov or call 1 (800) FED INFO (1-800-333-4636) (8am - 8 pm ET Monday - Friday).

Account Management

- ❖ SSO and seamless access to data.gov and geoplatform.gov resources
- ❖ Access to enhanced service capabilities:
 - ❖ Performance Dashboard
 - ❖ AGOL Map Harvester
- ❖ Ability to save and import maps in the Web Map Viewer (WMV)
- ❖ Creating/editing Map Galleries with Map Manager

GEOPLATFORM.gov

USER ACCOUNT

If you have a registered account through GEOPLATFORM.gov and want to change your password, follow these steps:

1. Click on Forgot Password.
2. Enter the e-mail address you use to log in to GEOPLATFORM.gov and then submit.
3. You will receive an e-mail with a link to change your password.
4. After you change your password you should be able to log in through GeoPlatform.

Contact the [GeoPlatform Service Desk](#) if you have any questions/problems.

[Create new account](#) [Log in](#) [Forgot password](#)

Username/E-mail *

Enter your username or e-mail address.

Password *

Enter the password that accompanies your e-mail.

My Account

Already have an account? Go ahead and sign in! Don't have an account? Register a new account using the button below. It's quick and free!

GEOPLATFORM.gov

USER REGISTRATION PAGE

First Name *

Last Name *

Username *

E-mail *

Employee Organization *

Please select organization affiliation...

Password *

Confirm *

☐ I'm not a robot

Web Map Viewer

- ❖ Multiple data browse, filter, and sort features
- ❖ Dataset preview
- ❖ Add user content: Digitize features or Upload .KML, GeoJSON, .CSV, or shapefiles (in .ZIP) to extract features
- ❖ Gazetteer and Geolocation support
- ❖ Control layer ordering, visibility, opacity
- ❖ Save and share maps (Web Map Context)
- ❖ Publish composed maps

GeoPlatform Map Viewer

Browse Layers

Search Layers

Search for layers by name

Sort Layers

Name

Layer sources

AssistedHousing

BISON

Cropland Data Layer WMS Se

EPA Facilities US, 2012, US E

ESI

EnviroAtlas

FWS Critical Habitat Mapper

Layer types

All Amphibians (Amphibia)

All Gymnosperms (Gymnospermae)

All Mammals (Mammalia)

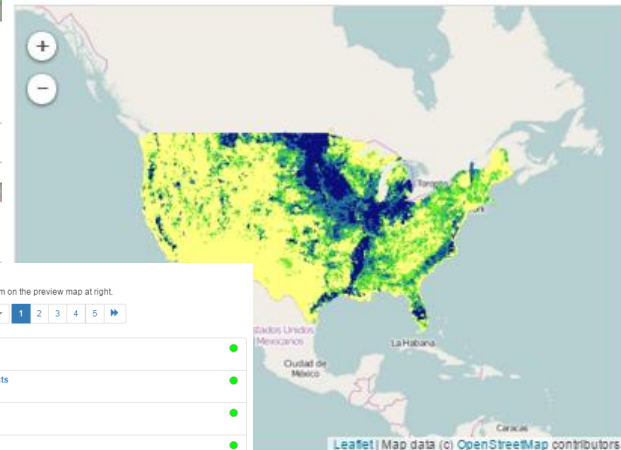
All Mustards (Brassicaceae)

All Oaks (Quercus)

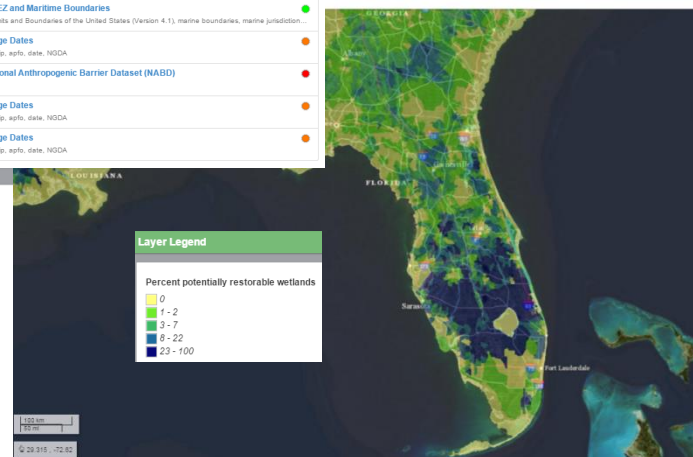
All Reptiles (Reptilia)

Preview

Apply selected la



may take several seconds to appear.



Map Manager

- ❖ Browse harvested AGOL maps by search filters or organization
- ❖ Create map galleries with maps from WMV and AGOL
- ❖ Share maps and galleries via email
- ❖ Embed map blocks and curated gallery pages into other websites
- ❖ Customize gallery page with community and keywords
- ❖ Manage gallery pages
- ❖ Permissions-based access and use

The screenshot displays the GeoPlatform Map Manager web application. At the top, there's a navigation bar with links for Maps, Galleries, AGOL, Help, and a user profile for 'Test Tester'. Below the navigation bar, three map thumbnails are shown: 'Virginia for the Birds' (a map of Virginia with bird distribution), 'Sea Level Rise 3 ft' (a map showing coastal flooding), and 'Heating and Cooling Degree Days' (a map of the United States with color-coded regions). Below these, a search bar is visible with the text 'Search by name or keyword'. The search results show 18 results, with a pagination bar indicating '10 per page' and '1' of 2 pages. Below the search results, three gallery thumbnails are shown: 'Create a Gallery' (a blank gallery), 'Ecosystem Map Gallery' (a map of the United States), and 'Climate Change Gallery' (a map of the United States). Below the gallery thumbnails, a search bar is visible with the text 'Search by name or keyword'. The search results show 45 results, with a pagination bar indicating '10 per page' and '2' of 5 pages. Below the search results, three map thumbnails are shown: 'Short-Duration Hazards - Warnings' (a map of the United States with red shaded areas), 'Recent Weather Radar Imagery' (a map showing weather radar data), and 'Long-Duration Hazards - Watches, Warnings, & Advisories' (a map of the United States with color-coded regions). Below these, a search bar is visible with the text 'Search by name or keyword'. The search results show 45 results, with a pagination bar indicating '10 per page' and '2' of 5 pages. Below the search results, three map thumbnails are shown: 'Short-Duration Hazards - Warnings' (a map of the United States with red shaded areas), 'Recent Weather Radar Imagery' (a map showing weather radar data), and 'Long-Duration Hazards - Watches, Warnings, & Advisories' (a map of the United States with color-coded regions).

ArcGIS Online Integration

- ❖ Harvest maps from ArcGIS online organizations and publish them to the GeoPlatform

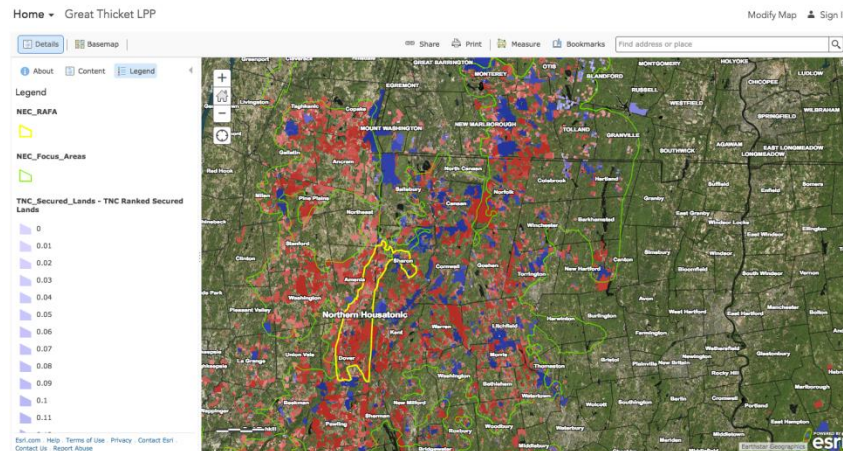
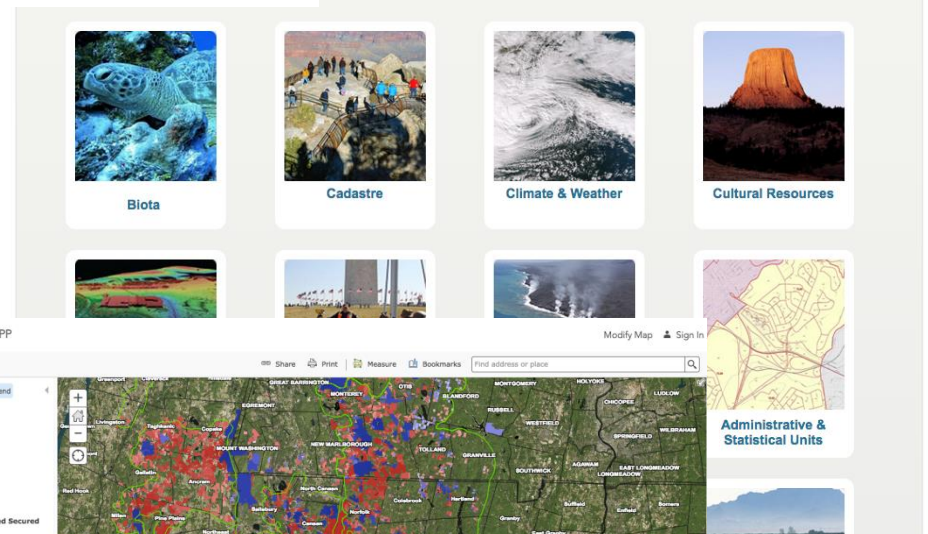
- ❖ Search and Discover maps by search filters or organization

- ❖ Unlimited publishing of data and maps to AGOL*

- ❖ Create map galleries with maps from WMV and AGOL



view map layers and a whole lot more. Follow the links below to layers that you can use to make your own mashups, run analysis, at the [ArcGIS Online blog](#) for great ideas, tips and tricks and the [GIS Online help](#) for detailed how-tos.



Performance Dashboard

❖ Tools to measure, monitor, and report on NGDAs and services

❖ NGDA Dataset Lifecycle Maturity Assessment survey tools

❖ Service Checker

GeoPlatform Performance Dashboard

Dashboard Manage

Test Tester

Select a NGDA Dataset Lifecycle Maturity Assessment survey from the drop-down below. Surveys are added quarterly, and include the title their Fiscal Year and Quarter. You may choose to filter by Theme or Agency using the Selection Type and Selection drop-downs. For more details, click on a rating box (cell) or hover over column headings.

Legend

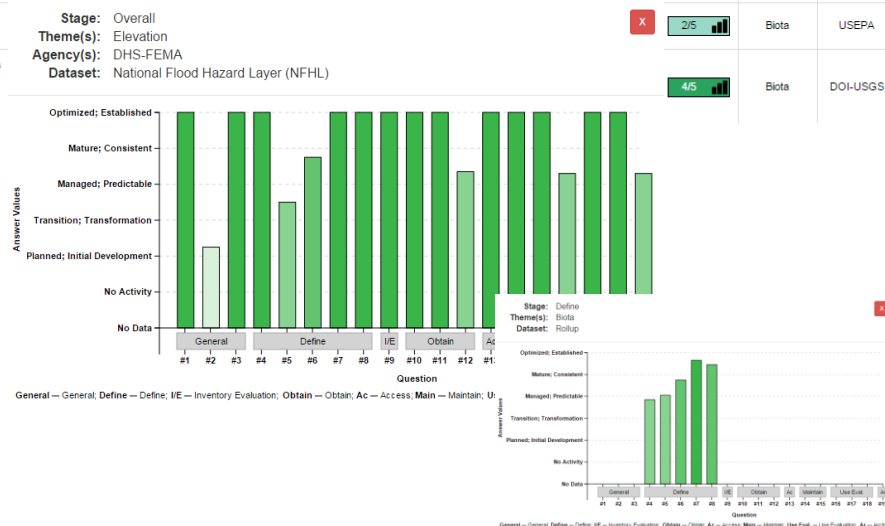
Survey: Submissions as of 1/7/2016

Selection Type: By Theme

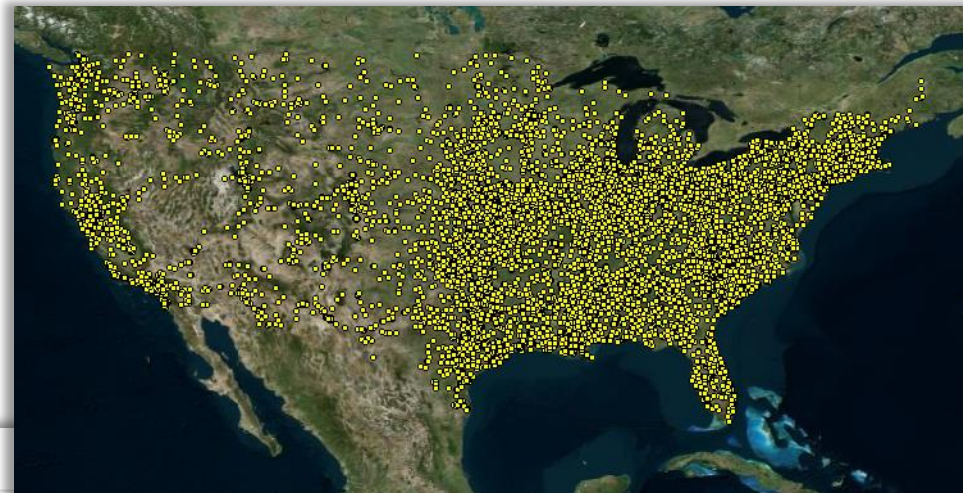
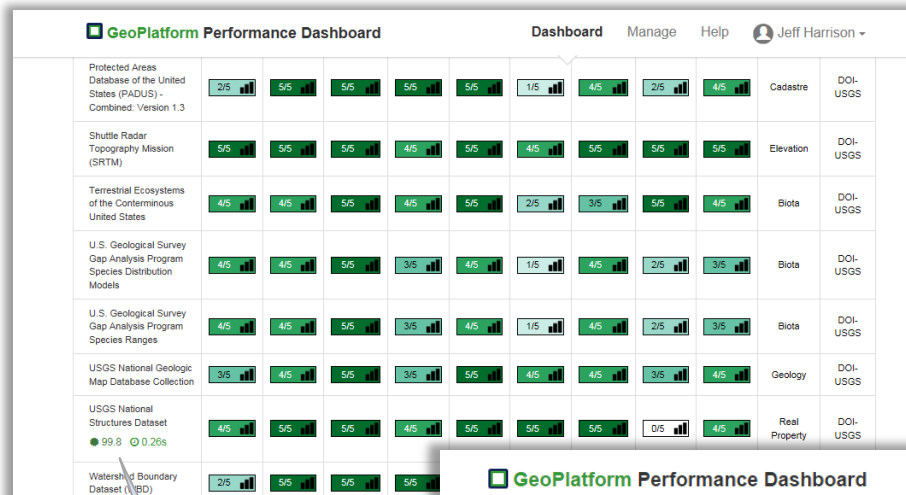
Selection: 1 selected

Export as: PDF

Dataset	General	Define	Inventory Evaluation	Obtain	Access	Maintain	Use Evaluation	Archive	Overall	Theme	Agency
Theme Rollup	4/5	4/5	4/5	4/5	3/5	3/5	3/5	3/5	3/5		
Bailey's Ecoregions And Subregions Of The United States, Puerto Rico, And The U.S. Virgin Islands - Direct Download	5/5	2/5	5/5	5/5	4/5	5/5	2/5	5/5	4/5	Biota	USDA-USFS
Environmental Sensitivity Index (ESI) Data Viewer and REST Services for Atlases	3/5	5/5	3/5	3/5	1/5	2/5	2/5	2/5	3/5	Biota	DOC-NOAA
FWS Critical Habitat for Threatened and Endangered Species Dataset	3/5	4/5	5/5	5/5	5/5	5/5	4/5	5/5	4/5	Biota	DOI-FWS
Omerik's Level III Ecoregions Of The Conterminous United States									2/5	Biota	USEPA
Terrestrial Ecosystems of the Conterminous United States									4/5	Biota	DOI-USGS



Performance Dashboard - Reliability



GeoPlatform Performance Dashboard

Service status : USGS National Structures Dataset

Start Date:

02/06/2016

End Date:

03/07/2016

99 results

5 per page

1

2

3

4

5

»

Sort

Timestamp

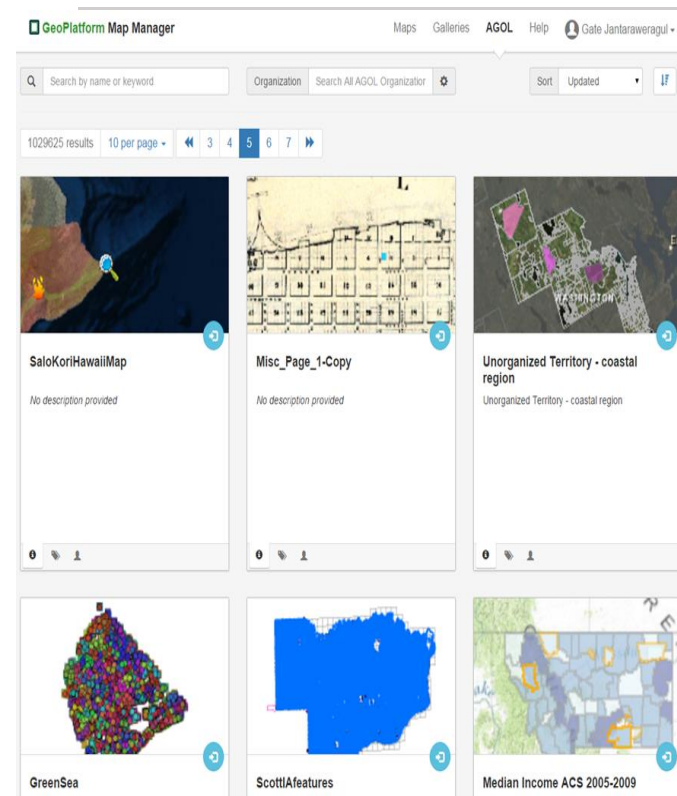
↓

Timestamp	● Reliability	○ Speed
03/07/2016 02:31:10 PM	99.8	0.26s
03/07/2016 10:48:22 AM	99.8	0.26s
03/07/2016 10:21:49 AM	99.8	0.26s
03/07/2016 02:21:46 AM	99.84	0.2s
03/06/2016 06:21:41 PM	99.84	0.2s

Reliability of USGS National Structures Service

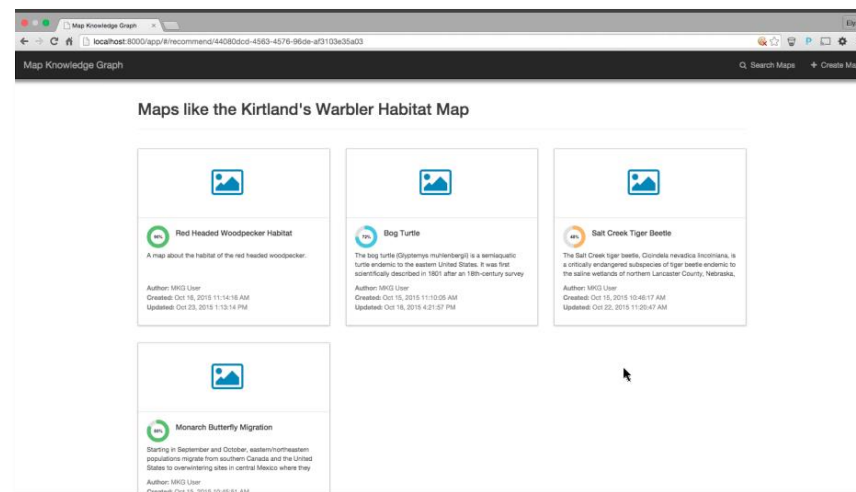
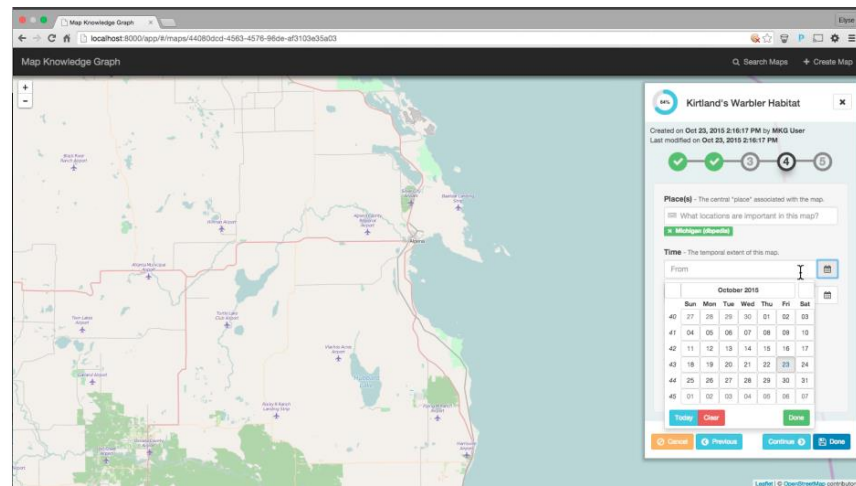
What's Coming in Release 4 (May)?

- ❖ Community Engagement. New applications, services and tools for integrating with and enhancing content
- ❖ [Upgraded Marketplace Service](#)
- ❖ New metadata tools for discovery of resources and linking data to services
- ❖ Measurement, Monitoring, and Reporting. Quantitative performance metrics (data lifecycle maturity, QoS service tracker, with service utilization,



What are we working on?

- ❖ Map Knowledge Graph and enhanced Registry services
- ❖ Layer recommendation service
- ❖ More NGDAs available via reliable services
- ❖ Additional Marketplace functionality
- ❖ APIs for Developers



Conclusion



GeoPlatform is helping advance the NSDI by enabling users to:

- ❖ *More easily find existing maps and data:* Semantic search / Knowledge graphs will help users surface the right content more quickly and easily
- ❖ *Get access to more high quality NSDI services:* Cloud hosting offerings have the ability to change the game in terms of making high quality data available
- ❖ *Understand (and improve!) the quality of the NSDI services:* Service status checker and performance dashboard can continuously monitor the component services of the distributed NSDI
- ❖ *More easily share data, tools, maps and collaborate:* GeoPlatform offerings bring collaboration and analytics tools at scale to end users in all sectors

Thank you

